EXHIBIT 1 10/531,330

Claimed diseases	References showing the evidence and the corresponding recitations
Chronic heart fallure, Anglina, Cardiac infarction	Nature, Vol. 407, No. 6806, 2000, pp. 879-876 "Large-conductance calcium-activated potassium channels (Bik channels) are pivotal in the regulation of arterial tone, where they facilitate a negative feedback mechanism which opposes vasoconstriction" (p. 870, L. 7)
	The Journal of Pharmacology and Experimental Therapeutics Vol. 284, No. 3, 1998, pp. 538-846 "This study investigated nitroglygerin (NTG) relaxations in isolated dog coronary artery in comparison with other vascular preparations Under maximal PNU-46619 precontraction, the coronary artery was significantly more sensitive to NTG than mesenteric artery mesenteric vein and saphenous vein. In the coronary artery, NTG (1 100 nM) produced relaxations with EC50 5 9.4 nM. In KCl-contracted arteries (20-80 nm KCl), relaxation by NTG was progressively reduced. Relaxation responses to NTG also were inhibited significantly by potent calcium-activated K1 (fBK), channel blockers, charybodoxin (100 nM) and iberiotoxin (200 nM), but not by KATP blockerssuch as PNU-37883A (10 mM) or PNU-99963 (100 nM)." (Abstract)
	"Finally, comparative studies with NTG, NO and ACh show that BK channel blockers produce significant inhibition of relaxations by all three agents in the coronary artery. Thus, BK channel activation apparently is a key mechanism for coronary artery relaxation by cyclic GMPmediated vasodilators such as, NTG, ACh and NO." (p. 845, right col. L. 6)
Hypertension	Current Pharmaceutical Design, Vol. 2, No. 4, 1996, pp.413-428 P.425, right column, Chapter of Hypertension
Cerebral Infarction, Subarachnoid Hemorrhage, Cerebral vasospasm, Cerebral hypoxia, Cerebral sopplexy, Cerebral ischemia, Traumatic encephalopathy	Journal of Cerebral Blood Flow and Metabolism, 21(4), 2001 pp.396-403 "Large-conductance, calcium-activated potassium (maxi-K) channels regulate neurotransmitter release and neuronal excitability, and operers of these channels have been shown to be neuroprotective in models of cerebral ischemia" (Abstract, L.1) "These beneficial results, in a clinically relevant model of brain injury, are suggestive of the potential use of this maxi-K channel opener as a therapeutic agent for the treatment of TBI, and future studies should attempt to assess the therapeutic window for this compound." (P.401, right tool. L.1)

	US 6,184,231 B1 "Selected compounds have been evaluated in the focal stroke model involving permanent MCAO in the spontaneously hypertensive rat. This procedure results in a reliably large neocortical infanct volume that is measured by means of vital dye exclusion in serial slices through the brain 24 hours after MCAO. In the present test, compounds were administered using an intravenous route of administration at 2 hours after occlusion. For example, in this model, the compound of Example 21 reduced the cortical infanct volume by about 25% when administered (0.003 mg/kg) as a single bolus 2 hours after middle cerebrail artery occlusion as compared to vehicle-treated (2% DMSO, 98% propylene glycol) control."(column 23 L. 23)
Asthma	Current Pharmaceutical Design, Vol. 2, No. 4, 1996, pp.413-428. P.425, left col., Chapter of asthma
Chronic obstructive pulmonary disease (COPD) Cough accompanied by asthma or chronic obstructive pulmonary disease (COPD)	Pharmacology & Therapeutics. Vol. 70, No. 1, pp. 39-63, 1996 "This has led to the proposal that openers of BKca charmels could demonstrate therapeutic benefit in regulation of tone of the respiratory system'(P. 50, right col. L.1) British Journal of Pharmacology, (2003) 140 (5), pp. 939-947 (published on September 29, 2003) "Theophylline has been used worldwide for the treatment of asthma and chronic obstructive pulmonary diseases for several decades, due in part to its low cost and its ease of administration."(p.939 L.1) "We determine that the major mechanisms for theophylline-induced relaxation of the porcine tracheal smooth muscle include the activation of BK channels as well as the attenuation of Ca2+sensitivity presumably through the actions of cAMP." (P. 946, right col. L.11) J. Clin. Invest., Vol. 99, No. 3, 1997, pp. 513-519 "These data show that BKCa channel activation inhibits sensory nerve activity, resulting in a reduction of both afferent and efferent function. BKCa channel openers may therefore be of potential benefit in reducing neurogenic inflammation and central reflexes seen during inflammatory conditions of the airways, and may represent a new class of antilussive drug." (Abstract, L.17)
Irritable bowel syndrome	Book of Abstracts, 219th ACS National Meeting, San Francisco, CA, March 26-30, 2000. "Rapid synthesis of the BK channel opener CGS 7181 and its analogs." Beliey, Michel; Dube, Pascal; Dolman, Sarah; Scheligetz, John. "Calcium activated potassium (BK) channel openers are implicated in the excitability and the maintenance of the ionic homeostasis of the cells. They might be useful target for the treatment of disorders assocd, with excessive neuronal discharge such as epilepsy, urinary incontinence and irritable bowel syndrome." (Abstract)

Journal of Physiology (2008), 526.2, pp. 375-385 (Abstract) and

*The sensory neurons within the gut wall are subjected to mechanical deformation of their processes and of their cell bodies. Deformation of the processes by stretch that occurs when the intestine is distended or the muscle contracts excites the neurons and triggers reflexes. Compression of the soma by pressure causes increased opening of potassium channels and thus has an inhibitory effect, which may be

Erectile dysfunction US 6.184.231 B1

protective" (conclusion)

tested." (Column 23 L. 48)

"The in vivo model on erectile function is described fully in the scientific literature [Rehman, J., Chenven, E., Brink, P. Peterson, B., Wolcott, B., Wen, Y. P., Melman, A., Christ, G.: Diminished neurogenic but not pharmacological erections in the 2- to 3-month experimentally diabetic F-344 rat. Am. J. Physiol. 272: H1960-H1971, (1997)]. Briefly, rats (250-600 g) were anesthetized using sodium pentobarbital, the abdomen opened and the cavernous nerve identified. A pressure catheter was placed in the right corpus cavernosum (crus) to measure intracavernous pressure (ICP). A second catheter was introduced into the carotic artery to measure

blood pressure. Test compound (0.1, 0.3 and 1 mg/kg lV.) or vehicle (PEG 400) was given via a catheter placed into the jugular vein. Control intracavemous pressure responses were elicited by electrically stimulating the cavernous nerve via bipolar stimulating electrodes (20 Hz, 0.22 ms pulse width). Stimulas amplitude (0.2-20 mA) was adjusted to produce a submaximal intracavemous pressure response (typically 0.2 or 0.5 mÅ). A series of control intracavemous pressure responses were then obtained using a constant stimulus

amplitude. Test compound or vehicle was then administered (200 mu.l.l.v bolus) and the cavernous nerve was restimulated to evoke a cavernous pressure response at various times post-drug administration. Animals were excluded from the study if the initial ICP responses to nerve stimulation were unstable ("spir") responses of it there were time-dependent variations in the magnitude of the control responses. Animals were also excluded if the control ICP/BP responses ello utside the 0.3-0.6 range. A repeated measures ANOVA was used for the evaluation of statistical significance. The compound of Example 20 (0.1-1 mg/kg) produced an augmentation of the ICP/BP responses elicited by sub-maximal stimulation of the cavenous nerve. A significant increase in the

ICP/BP ratio was observed at doses from 0.1-1.0 mg/kg of compound